

M 4.2, 5km NNE of Magna, Utah

Origin Time: 2020-04-16 13:41:29 UTC (Thu 07:41:29 local)
Location: 40.7358° N 112.0622° W Depth: 9.5 km

Created: 45 minutes, 47 seconds after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

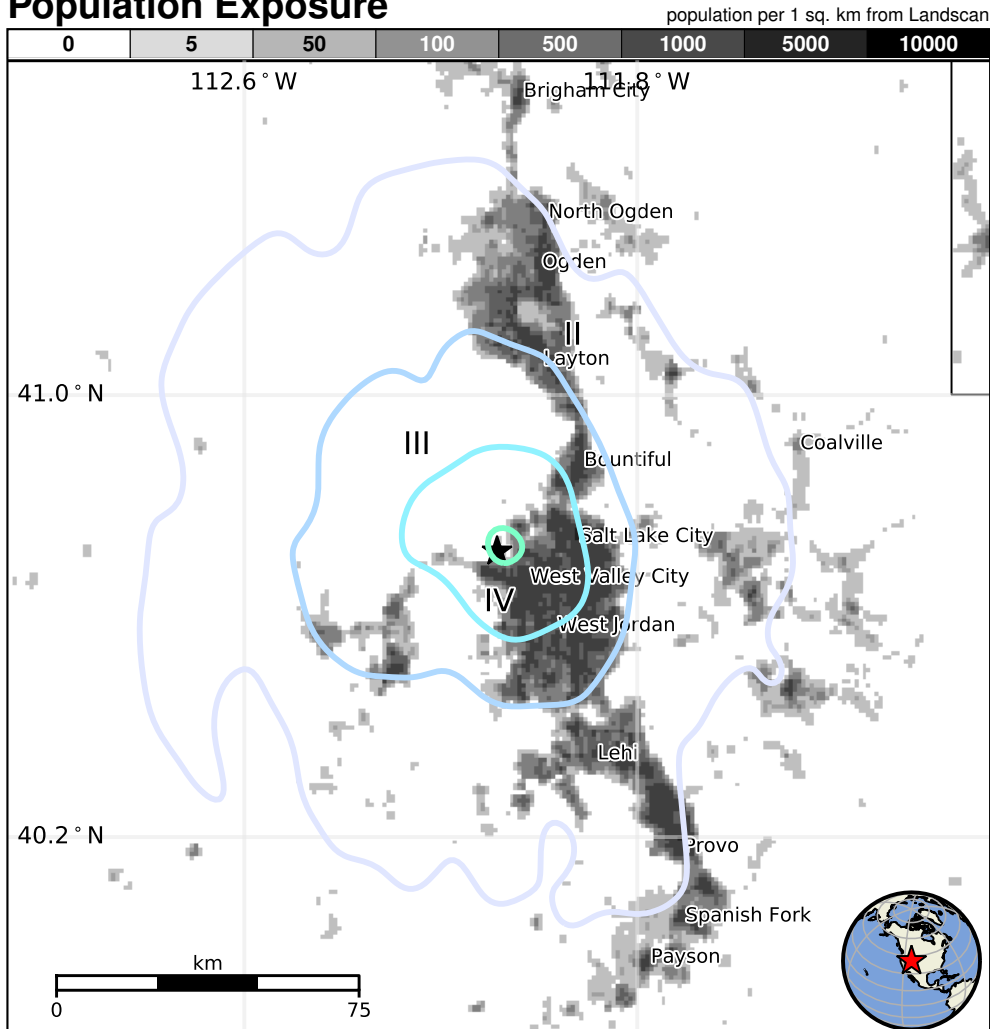


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		201k	1,762k	576k	90k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1975-03-28	146	6.2	VI(13k)	—
1994-02-03	244	5.8	VIII(1k)	—
1983-10-28	398	6.9	VII(2k)	2

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Magna	27k
IV	Taylorsville	59k
IV	West Valley City	129k
IV	South Salt Lake	24k
IV	Kearns	36k
IV	Oquirrh	12k
IV	Salt Lake City	186k
IV	West Jordan	104k
III	Sandy Hills	90k
II	Provo	112k
II	Orem	88k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/uu60378837#pager>

bold cities appear on map.

(k = x1000)

Event ID: uu60378837